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TriPorter™ All-in-One Network Tester

Verify all your "Triple-Play" services with this versatile and affordable test set.

FEATURES

- Tests for the efficient delivery of IP-based voice and data, qualifying lines for VoIP service at 100-Mbps speeds.
- Also tests phone circuits and measures RF levels on coax lines to ensure clear video.
- Saves you from having to buy a number of different testers and mappers.
- Includes the main tester, a cable tracer, cable identifiers and wire mappers, a handy mini-headset for hands-free operation, and more!
- Main test unit has backlit LCD display with icons showing clear test results.
- Uses IP address protocol and recognizes autonegotiation using fast link pulses to report advertised Ethernet capability.
- Cisco® Discovery Protocol ready.
- When used as a telephone test set, detects and displays Caller ID information and faults, both while it's on hook and off hook.
- DSL safe and works with shielded or unshielded CAT3, CAT4, CAT5, CAT5e, or CAT6 cable; coax cable; 2-, 4-, and 6-pair telephone wiring.
- For long battery life, features auto-off in any mode and low power consumption.

OVERVIEW

Get a wide range of testing capabilities for physical wiring in all areas of your application—and ensure that your premise cabling supports Triple-Play services—with the handheld Tri-Porter test set from Black Box.

Whether you need to verify cabling for IP-based voice systems, Ethernet data links, POTS lines, and multimedia video runs, the versatile Tri-Porter does the job! This testing kit supports most diagnostic needs for communication and media services.

Ideal for SOHO as well as enterprise environments, the Tri-Porter enables you to quickly test IP-based services for optimal performance. It works with 10BASE-T and 100BASE-TX network cabling, telephone wiring, and coax cabling, and features wiring qualification with fault diagnosis, cable tracing, location identification, and service detection for all three media types.

In fact, with its integrated design, the Tri-Porter essentially replaces six types of testing tools! It functions as a:

- DSL-safe phone test set
- Network tester
- Tone generator
- Cable tester/verifier
- Tone detector/cable finder
- Coax mapper

Detect network cabling problems.

The Tri-Porter helps you find Physical Layer or configuration errors on active networks, and verify unpowered systems on new network installs. Use it to PING for IP address info, identify a device at the end of the line to learn not only what it is but also its network speed, and find connected ends in wiring closets. The Tri-Porter offers port discovery for Ethernet, Token Ring, and other systems, and tests to TIA-568 interconnect specs and connected lengths for CAT5, CAT5e, and CAT6 cables.

Verify phone outlets.

With the Tri-Porter, you can reliably determine if you have sufficient signal levels required for various telephony services. A built-in dial tone simulator gives you the means to power up phone systems to test connected runs. For voice telephony testing, it features an advanced-function telephone button set, call analysis and discovery, voltage and current readings, line number discovery with captured digits, and more! In Phone Mode, the Tri-Porter works as a portable telephone test set that can be used by installers for temporary communications and for servicing and installing lines. For hands-free listening while monitoring a line, the Tri-Porter features an integrated speakerphone (or you can listen via the included mini-headset).

Test signaling on video cable connections.

With its RF detection features, the Tri-Porter tests for physical and electronic variations that interfere with the correct operation of cable modems, video-on-demand applications, Hi-Def screens, and other high-end video systems. It does this by measuring incoming RF energy and by using a bar graph to show the ranges of energy expected on antennas and cable systems. The included Tri-Porter tracer unit traces

cables that are terminated to equipment or passing through splitters or taps, and enables you to trace the current flowing in terminated or shorted coax cables.

The tester comes with a 20-piece set of coax remote identifiers (numbered 1 through 20), as well as two 20-piece numbered wire mapper sets, one for data connections and another for telephone connections.

For easy communications when testing, the Tri-Porter comes with a mini-headset that features over-the-ear design (perfect for use while wearing a hard hat and safety glasses!) and an adjustable boom microphone. It also has a 4-foot (1.2-m) cord that has a 2.5-mm cell phone-style plug.

The Tri-Porter main unit offers intuitive controls with setup and mode selection buttons, a keypad of arrows, and a recessed rotary knob that you move up and down to select test functions.

Test results and function menus display clearly on the unit's LCD. This backlit transflective screen is easy to read in varying degrees of light, whether you're working on a reflective roof under the sun or in the darkest recesses of your wiring closet.

On the tracer unit, you use arrow buttons to digitally control volume and a select button to choose testing mode. The unit operates as both a listen-only POTS phone and a tone tracer, locating standard generated tone signals as well as dial tone signals. What's more, it traces UTP and audio cables, and offers unique tone tracing capabilities for both live and dark coax.

Diagnostics include LEDs that indicate voltage presence and polarity, when it's operating in phone mode or trace mode; and when the battery is low.

WARNING: Do not attach the Tri-Porter to primary power lines.

What's included

- ✦ Main Tri-Porter test unit
- ✦ Remote Tri-Porter tracer unit with interchangeable probe tips
- ✦ Mini-headset with microphone
- ✦ Set of (20) coax remote identifiers (numbered 1–20)
- ✦ Set of (20) RJ-45 wire mappers (numbered 1–20)
- ✦ Set of (20) RJ-11 wire mappers (numbered 1–20)
- ✦ F type-to-F type coax coupler
- ✦ F type-to-slide-on coax plug without center conductor
- ✦ User manual
- ✦ Carrying case

TECH SPECS

Apparent Line Resistance — 275 ohms at 20 mA
Battery Life (Maximum) — For the full capacity of the battery used continuously:
Main unit: Standby: 2.5 years;
Cable testing with no backlight: 50 hours;
Network testing with no backlight: 13 hours;
Phone testing with no backlight: 27 hours;
Tracer unit: Standby: 2.5 years;
Tracing: 13.5 hours;
Phone: 18 hours
Cable Length (Minimum) — For split pair testing: 3 ft. (0.9 m);
For single-ended cable test: 4 ft. (1.2 m)
Cable Types Supported — Shielded or unshielded CAT3, CAT4, CAT5, CAT5e, or CAT6; coax; 2-, 4-, and 6-pair telephone
Flash Duration — 600 ±50 ms
Length Measurement (Maximum) — On CAT5/CAT6 cable: 1500 ft. (457.2 m)
Line Current Range — 15 to 120 mA
Measurement — Voltage: 0–128 VDC ±5%;
Current: 10–140 mA ±5%
Networks Supported — 10-Mbps Ethernet or 100-Mbps Fast Ethernet
Pause Duration — Tone: 3 seconds;
Pulse: 3.4 seconds
Return Loss — 14 dB at 600 ohms
Tone Dialing — DTMF output (into 600 ohms):
Tone frequency error: ±1.5%
Tone level: -6 ±2 dBm (high group) and -8 ±2 dBm (low group) with a difference of 2 ±1 dBm between high and low
CE Approval — Yes
Connectors — Main unit: Network: (1) RJ-45 (TIA-568A/B standard);
Coax: (1) F-type with coupler that provides jack attachment point;
Telco: (1) RJ-12 (6-wire RJ-11) wired to 3 -pair USOC standard;
Phone: (1) RJ-11 (4-wire) wired to 2-pair USOC standard (Line 1 or Line 2 selected via switch);
Remote data: (1) RJ-45 (TIA-568A/B standard);
Remote phone: (1) RJ-11 (6-wire) with USOC pairing
Operating Environment — Temperature: 32 to 122°F (0 to 50°C);
Humidity: 10 to 90%, noncondensing
Power — Main unit: (6) AA alkaline batteries;
Tracer unit: (1) 9-V alkaline battery
Size — Main unit: 8"H x 3.5"W x 2.2"D (20.3 x 8.9 x 5.6 cm);
Tracer unit: 9.3"H x 2.3"W x 1.7"D (23.6 x 5.8 x 4.3 cm)
Weight — Main unit: 1.6 lb. (0.7 kg) with batteries;
Tracer unit: 0.6 lb. (0.3 kg) with battery

Item	Code
Tri-Porter All-in-One Network Tester	**IVT600**